

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/SE 2005/000316

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: G01N 33/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ, BIOSIS, MEDLINE, CHEM ABS DATA

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	MAGALI AGNEL ET AL "Identification of three novel members of the calcium-dependent chloride channel (CaCC) family predominantly expressed in the digestive tract and trachea", FEBS Letters, 455 (1999) pp. 295-301, pages 298; "Homology between the CACC family members"	1-11
Y	WO 9944620 A1 (MAGAININ PHARMACEUTICALS, INC.), 10 Sept 1999 (10.09.1999), claims 26-28, page 26, lines 5-8; claims 22, 32, 33	1-11
Y	WO 02094876 A2 (F. HOFFMANN-LA ROCHE AG), 28 November 2002 (28.11.2002), claim 15	1-11

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

15 June 2005

Date of mailing of the international search report

17-06-2005

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Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of Item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:

a. type of material

- ☒ a sequence listing
☐ table(s) related to the sequence listing

b. format of material

- ☒ in written format
☒ in computer readable form

c. time of filing/furnishing

- ☒ contained in the international application as filed
☒ filed together with the international application in computer readable form
☐ furnished subsequently to this Authority for the purposes of search

2. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

3. Additional comments:

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Int. Application No. _____

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.: _____
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☒ Claims Nos.: 1 - 11
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.: _____
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.: _____

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: _____

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

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Box II.2

The expressions "a fragment thereof" and "a homologue of a CLCA protein" render the claimed scope unclear, see Article 6 PCT. According to the description (page 12), a homologue of a CLCA protein is all variants with retained hydrolase activity. A fragment of a CLCA protein or of a homologue of a CLCA protein is defined in the same way. This means that also proteins with hydrolase activity that has a very low homology to a CLCA protein are contained in the claimed scope. Since the invention relates to identifying modulators of the hydrolase activity of CLCA proteins, the invention is not considered to function for the whole of the claimed scope.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 20030059434 A1 (GRUPE ET AL), 27 March 2003 (27.03.2003), claim 12 --	1-11
A	S.E. HAMMOND ET AL, "Lethal Factor Active-Site Mutations Affect Catalytic Activity in Vitro", Infection and Immunity, May 1998,, pp. 2374-2378, pages 2377 --	1-11
A	PAUL D. LYNE "Structure-based virtual screening: an overview", DDT Vol 7, No. 20 October 2002, pp. 1047-1055 -- -----	6-11

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WO	9944620	A1	10/09/1999	AU	768507	B	11/12/2003
				AU	2981999	A	20/09/1999
				CA	2321664	A	10/09/1999
				EP	1067940	A	17/01/2001
				JP	2002505095	T	19/02/2002
				US	6576434	B	10/06/2003
				US	6716603	B	06/04/2004
				US	20030078409	A	24/04/2003
				US	20040204578	A	14/10/2004
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WO	02094876	A2	28/11/2002	CA	2445972	A	28/11/2002
				EP	1395611	A	10/03/2004
				JP	2005505253	T	24/02/2005
				US	20040203144	A	14/10/2004
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US	20030059434	A1	27/03/2003	NONE			
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